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Experimental Investigation and Theoretical Analysis of Oil Circulation Rates in Ejector Cooling Cycles

Jingwei Zhu, Francesco Botticella, Stefan Elbel



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## Highlights

- Oil sampling was taken at two different locations of the standard ejector cycle.
- High OCR (~10%) was observed at the evaporator inlet of the ejector cycle.
- Much lower OCR (~1%) was observed in the same cycle on the high pressure side.
- Evaporator OCR decreased as the motive nozzle needle moved towards the throat.
- Evaporator OCR decreased with smaller evaporator inlet metering valve opening.

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